

MAJOR FOREST INSECT AND DISEASE LOSSES 1961-70

Prepared by I&DC Staff
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Pest	Host	Location of Outbreak(s)	Years Occurred	No. Trees Killed/Year	Acres Infested Per Year	Total Volume Lost/Acre Per Year	Survey Method Used	Suppression Method	Volume of Infested Material Salvaged	Major Factor(s) Causing Outbreak
Southwestern dwarf mistletoe	Ponderosa pine	Region-wide	N/A	833,000	2,500,000	60 bd.ft.	Ground	Sanitation, Thinning	50,000,000 bd.ft.	N/A
Douglas-fir dwarf mistletoe	Douglas-fir	Region-wide	N/A	330,000	275,000	190 bd.ft.	Ground	Sanitation, Thinning	7,000,000 bd.ft.	N/A
Red rot	Ponderosa pine	Region-wide	N/A	N/A	4,000,000	8 bd.ft.	Ground	Harvest	N/A	Overmature stands
Western spruce budworm	Douglas-fir White fir	Carson, Santa Fe, Gila, & Lincoln NF's, & Navajo Ind. Res.	1961-68	42,700	551,000	3.01 cu.ft.+ 17.21 bd.ft.	Aerial & Ground	Aerial-- DDT, Malathion	5,000,000 bd.ft.	Unknown
Douglas-fir tussock moth	Douglas-fir White fir	Tonto & Cibola NF's Cities of Santa Fe & Ruidoso	1966-70	1,140	570	208 bd.ft.	Aerial & Ground	Aerial & Ground-- DDT	0	Unknown
Tent caterpillar	Quaking aspen	Carson & Kaibab NF's, Grand Canyon N.P., & Navajo Ind. Res.	1961-65	7,140,000	140,000	43 cu.ft.	Aerial & Ground	Aerial-- Malathion, Carbaryl	0	Unknown
Pinyon needle scale	Pinyon pine	Kaibab NF, Grand Canyon & Mesa Verde N.P.'s	1961-70	50	1,130	0 - Aesthetic	Ground	Ground-- Dimethoate	0	Unknown
Ips	Ponderosa pine	Prescott, Tonto, Cibola, Coconino, Apache, & Lincoln NF's, & San Carlos Ind. Res.	1961-70	20,800	520	250 bd.ft.	Aerial & Ground	Ground-- EDB, Plastic	0	Lightning strikes, logging, and thinning slash
Douglas-fir beetle	Douglas-fir	Kaibab & Carson NF's, Mesa Verde N.P., & Navajo & Ft. Apache Ind. Res.'s	1961-66	36,800	4,600	832 bd.ft.	Aerial & Ground	Log infested trees, Silvisar 510	500,000 bd.ft.	Drought and overmaturity
Black Hills beetle	Ponderosa pine Southwestern white pine	Cibola, Carson, & Coronado NF's	1961-65; 1968; 1969	24,500	3,320	3,000 bd.ft.	Aerial & Ground	Log infested trees	400,000 bd.ft.	Overstocking
Roundheaded pine beetle	Ponderosa pine	Lincoln & Coronado NF's	1967-70	142,800	50,250	199 bd.ft.	Aerial & Ground	EDB	0	Overstocking
Spruce beetle	Engelmann spruce	Santa Fe, Carson, Apache, & Cibola NF's, & Ft. Apache Ind. Res.	1961-70	38,949	19,595	680 bd.ft.	Aerial & Ground	Burning, chaining, traps, EDB, logging	30,000,000 bd.ft.	Blowdown, overmature stands, poor logging